

No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

J. R. Simplot Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BLUEGRASS, KENTUCKY

'Nu Destiny'

In Testimony Whereof, I have hereunto set my hand
and caused the seal of the Plant Variety
Protection Office to be affixed at the City of
Washington, D.C. this seventh day of April, in
the year two thousand and eight.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER

J.R. Simplot Company (Att: 1/22/2008)

4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and County)

W. 5300 Riverbend Avenue
Post Falls, Idaho 83854

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME

J-2695, 94-2695

3. VARIETY NAME

Nu-Destiny

FOR OFFICIAL USE ONLY

PVPO NUMBER

200300002

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)

Corporation

8. IF INCORPORATED, GIVE STATE OF INCORPORATION

Nevada

9. DATE OF INCORPORATION

June 28, 1955

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)

A. Douglas Brede
W. 5300 Riverbend Avenue
Post Falls, Idaho 83854

FILING AND EXAMINATION FEES:

\$ 2705 -

DATE 10/11/2002

CERTIFICATION FEE:

\$ 768.00

DATE 3/11/2008

FEES RECEIVED

11. TELEPHONE (Include area code)

208-773-7581

12. FAX (Include area code)

208-773-4846

13. E-MAIL

dbrede@simplot.com

14. CROP KIND (Common Name)

Kentucky bluegrass

15. GENUS AND SPECIES NAME OF CROP

Poa pratensis

16. FAMILY NAME (Botanical)

Gramineae

17. IS THE VARIETY A FIRST GENERATION HYBRID?

YES

NO

18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)

- a. Exhibit A. Origin and Breeding History of the Variety
- b. Exhibit B. Statement of Distinctness
- c. Exhibit C. Objective Description of Variety
- d. Exhibit D. Additional Description of the Variety (Optional)
- e. Exhibit E. Statement of the Basis of the Owner's Ownership
- f. Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)
- g. Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)

19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act

YES (If "yes", answer items 20 and 21 below)

NO (If "no", go to item 22)

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?

IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED

21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

IF YES, SPECIFY THE FOUNDATION REGISTERED CERTIFIED NUMBER 1,2,3, etc.

(If additional explanation is necessary, please use the space indicated on the reverse.)

22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES?

YES 8/22/02 USA NO

IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)

23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?

YES

NO

IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)

24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER

SIGNATURE OF OWNER

NAME (Please print or type)

A. Douglas Brede

NAME (Please print or type)

CAPACITY OR TITLE

Research Director

DATE

5 Sept. 02

CAPACITY OR TITLE

DATE

Exhibit 16A**Origin and Breeding History – ‘Nu Destiny’ Kentucky Bluegrass**

‘Nu Destiny’ Kentucky bluegrass originated as a highly apomictic, single-plant selection from the progeny of hybrid cross number 92-4275, created in the field in June 1992. Cross 92-4275 involved 90-0416 as the mother plant and ‘Midnight’ Kentucky bluegrass as the pollen parent. 90-0416 is a dark green, apomictic plant line identified 10 July 1990 as a selection from an open pollinated hybridization of ‘Huntsville’ Kentucky bluegrass. Based on the color of 90-0416, the likely pollen parent was ‘Glade’ Kentucky bluegrass.

Seed harvested from 90-0416 plants were individually sown into cells of greenhouse flats during the spring of 1993. The resulting plants were grown in a spaced-plant field nursery of 40,701 plants. Offspring with characteristics dissimilar to 90-0416 were flagged during maturation in Spring of 1994. Plant number 94-2695 (the experimental designation for Nu Destiny) was identified as being unique from its maternal parent, by its vegetative turf characteristics, prior to heading. Nu Destiny was selected for release based on a combination of its US East Coast turf performance, combined with reliable seed yield in the Pacific Northwest. Plant 94-2695 produced 14.1 grams of clean seed from a single spaced plant, which is typical for a bluegrass spaced plant in North Idaho.

Seed harvested from experimental 94-2695 was tested in Jacklin turf quality trials in Idaho in 1994. It was evaluated in Ohio in 1999, New Jersey in 1997, Maryland in 1995, and in National Turfgrass Evaluation Program (NTEP) trials in 2000. It was evaluated in Idaho at both 1½ inch and ½ inch mowing, and in Maryland at 2 inch and 3/8 inch mowing. Its seed yielding ability was evaluated in a replicated yield trial in Post Falls in 1998 and in a small production block near Connell, WA, seeded in 1998. First breeder seed was produced in 1999 and first certified seed in 2001, although none was sold until 2002.

Progeny trials were conducted in spaced-plant nurseries, established near Post Falls, ID, in May 1999, to determine the level of apomixis. Among Nu Destiny plants, 3.4% were variants in the vegetative (pre-heading) stage, 2.4% were heading maturity variants, 0% seedhead variants, 3.2% miniature plants, and 0.8% were headless plants. The characteristics of variant plants are described in Exhibit 16D. In spaced-plant nurseries, Nu Destiny averaged 90% apomictic. However in commercial seed production, apomixis will vary with climate and year. In production fields, uniformity appears to be approximately 97%, due to the fact that miniature and headless variants do not express themselves.

Nu Destiny Kentucky bluegrass is a stable and uniform variety. Over seven years of commercial seed production, from Breeders through Certified seed, all seedlots evaluated have produced turf of comparable quality and acceptable uniformity. Aberrant progeny described have been observed to be uniform and stable from generation to generation, and are routinely rogued from breeders, foundation, and registered fields to insure continued uniformity and stability, but they will continue to occur in every generation.

Exhibit 16 B**Statement of Distinctness – Nu Destiny Kentucky Bluegrass**

'Nu Destiny' is a moderately low-growing Kentucky bluegrass variety with medium-late maturity. Nu Destiny can be distinguished from all other varieties by the combination of spaced-plant and seed characteristics described in Tables 1 through 9. Nu Destiny most closely resembles 'Award' Kentucky bluegrass but differs from it in the following characters:

1. Nu Destiny has a significantly longer sheath length of its flagleaf than Award (13 mm for Nu Destiny versus 10.8 mm for Award in 1999, significant at 0.001 level; 10.8 mm for Nu Destiny versus 9.1 mm for Nu Destiny in 2000, significant at 0.001 level) (Table 1).
2. Nu Destiny has a significantly longer panicle length than Award (10.15 cm for Nu Destiny versus 9.02 cm for Award in 1999, significant at 0.001 level; 10.76 cm for Nu Destiny versus 9.07 for Award in 2000, significant at 0.001 level) (Table 1).
3. Nu Destiny has a significantly shorter second subtending leaf length, measured from collar to tip, than Award (7.71 cm for Nu Destiny versus 8.82 cm for Award in 1999, significant at 0.001 level; 7.17 cm for Nu Destiny versus 7.89 cm for Award in 2000, significant at 0.001 level) (Table 3).
4. Nu Destiny has a significantly smaller length-to-width ratio of its second subtending leaf length than Award (23.9 cm cm^{-1} for Nu Destiny versus 19.4 for Award in 1999, significant at 0.001 level; 28.6 cm cm^{-1} for Nu Destiny versus 35.1 for Award in 2000, significant at 0.01 level) (Table 3).
5. Nu Destiny has a significantly longer internode length at the lowest internode in its panicle than Award (2.34 cm for Nu Destiny versus 2.12 cm for Award in 1999, significant at 0.001 level; 1.87 cm for Nu Destiny versus 1.53 cm for Award in 2000, significant at 0.001 level) (Table 4).
6. Nu Destiny has a significantly longer length of its panicle, minus the lowest internode, than Award (7.81 cm for Nu Destiny versus 6.9 cm for Award in 1999, significant at 0.001 level; 7.12 cm for Nu Destiny versus 5.8 cm for Award in 2000, significant at 0.001 level) (Table 4).
7. Nu Destiny has significantly wider seed than Award (0.72 mm for Nu Destiny versus 0.69 mm for Award in 1999, significant at 0.001 level; 0.69 mm for Nu Destiny versus 0.65 mm for Award in 2000, significant at 0.001 level) (Table 6).
8. Nu Destiny has a significantly smaller length-to-width ratio of its seed than Award (4.37 mm mm^{-1} for Nu Destiny versus 4.53 for Award in 1999, significant at 0.01 level; 4.33 mm mm^{-1} for Nu Destiny versus 4.5 cm for Award in 2000, significant at 0.05 level) (Table 7).
9. Nu Destiny has significantly heavier seed than Award ($0.046 \text{ g 100 seed}^{-1}$ for Nu Destiny versus 0.038 g for Award in 1999, significant at 0.001 level; $0.042 \text{ g 100 seed}^{-1}$ for Nu Destiny versus 0.034 for Award in 2000, significant at 0.001 level) (Table 7).
10. Nu Destiny is significantly earlier in reproductive maturity on May 30th than Award (rating mean of 5.2 for Nu Destiny versus 2.1 for Award in 1999, significant at 0.001 level; rating mean of 7 for Nu Destiny versus 3.4 for Award in 2000, significant at 0.001 level; rating mean of 4.2 for Nu Destiny versus 2.9 for Award in 2002, significant at 0.05 level) (Table 8).
11. Nu Destiny is significantly earlier in reproductive maturity on June 7th than Award (rating mean of 7.3 for Nu Destiny versus 4.8 for Award in 1999, significant at 0.001 level; rating

#20030002

mean of 7.7 for Nu Destiny versus 4.8 for Award in 2000, significant at 0.001 level; rating mean of 5.9 for Nu Destiny versus 4.6 for Award in 2002, significant at 0.01 level) (Table 9).

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705
OBJECTIVE DESCRIPTION OF VARIETY
BLUEGRASS (*Poa spp*)

Exhibit 16C
(*Bluegrass*)

NAME OF APPLICANT(S) <u>J.R. Simplot Company (bt: 1/22/2008)</u>	VARIETY NAME OR TEMPORARY DESIGNATION <u>NuDestiny Nu Destiny (PT: 1/22/2008)</u>
ADDRESS (Street and no., or R.F.D. No., City State and ZIP Code) <u>W. 5300 Riverbend Ave. Post Falls, Idaho 83854</u>	FOR OFFICIAL USE ONLY PVPO NUMBER #200300002

Place the appropriate number that describes the Varietal character of this variety in the boxes below. Use leading zeros when necessary (e.g., 089 or 09). Characteristics described including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used; 1-9 rating scale, where mentioned. Describe location of test area, conditions and number of plants used: Rathdrum, ID, 20-60 plants/cultivar x 3 reps: The symbol "▲" indicates decimal. Location of the test area: Farm near Rathdrum, Idaho

1. SPECIES: (With comparison varieties for use below - use varieties within species of application variety)

2 1= *Poa compressa* 2= *P. pratensis* 3= *P. trivialis* 4= Other (specify) _____
 Chromosome Number

2. ADAPTATION: (0= Not tested; 1= Not Adapted; 2= Adapted)

<input checked="" type="checkbox"/> 2	Northeast	<input checked="" type="checkbox"/> 2	Transitional zone	<input checked="" type="checkbox"/> 1	Southeast	<input checked="" type="checkbox"/> 2	North Central
<input checked="" type="checkbox"/> 2	Pacific N.W.	<input checked="" type="checkbox"/> 2	Intermountain	<input checked="" type="checkbox"/> 2	Southwest (CA.,AZ.)	<input type="checkbox"/>	Other (specify) _____

3. Maturity: (At first anthesis): Give test area _____ Rathdrum, ID

★ 6 Maturity Class:

1= Very Early 2 = Early (Delta, Mystic) 3= Medium Early (Fylking, Nugget)
4= Medium Late (Newport, Adelphi, Aquila) 5 = Late (Merion, Baron, Enmundi) 6 = Very Late(Pacific)

June 3 Date of First Anthesis

<input type="checkbox"/> 3	Number of days earlier than	★ <input checked="" type="checkbox"/> 10	1=Nugget	2=Fylking	3=Delta	10=Award	13=Liberator
Maturity same as		★ <input checked="" type="checkbox"/> 11	4=Merion	5=Newport	6=Baron	11=Absolute	14=Glade
<input type="checkbox"/> 6	Number of days later than	★ <input checked="" type="checkbox"/> 6	7=Mystic	8=Sabre	9=Reubens	12=Arcadia	15=Freedom II

4. PLANT HEIGHT: (At maturity; Average of longest shoot of 10 plants from soil surface to top of panicle) Test area Rathdrum, Idaho

★ 3

1= Short (Nugget) 2 = Medium short (Baron, Fylking, Mystic)
3= Medium Tall (Merion, Adelphi) 4= Tall (Delta) 5 = Very Tall

★ 5 6 ▲ 7 cm Height

<input type="checkbox"/> 5 ▲ <input type="checkbox"/> 2	cm Shorter than	★ <input checked="" type="checkbox"/> 11	1=Nugget	2=Fylking	3=Delta	10=Award	13=Liberator
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Height same as

★ <input checked="" type="checkbox"/> 10	4=Merion	5=Newport	6=Baron	11=Absolute	14=Glade
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1 6 ▲ 7 cm Taller than

★ <input checked="" type="checkbox"/> 6	7=Mystic	8=Sabre	9=Reubens	12=Arcadia	15=Freedom II
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5. GROWTH HABIT:

★ 2 3 = Prostrate (Nugget) 2 = Semi-prostrate (Merion) 1 = Erect (Delta)

3 8 cm Amount of spread by rhizomes in 1 year (give test area Rathdrum, Idaho.)

#200300002

6. LEAF BLADE:

★ <input type="checkbox"/> 4	Green Color	1 = Light Green (Mystic)	2 = Medium Green (Fylking, Bonnieblue)
		3 = Moderately dk. green (Merion, Adelphi)	4 = Very dk. green (Nugget, Glade, Enmundi)
★ <input type="checkbox"/> 4	Bluegreen Color	1 = Not bluegreen (Mystic, Touchdown, Parade)	2 = Moderately bluegreen (Merion, A-34)
		3 = Bluegreen (Nugget, Enmundi, Adelphi)	4 = Strongly bluegreen (Majestic)
<input type="checkbox"/> 1	Winter color	1 = Light green	2 = Dark green
		4 = Dark purple	3 = Light purple
			5 = Not purple
			6 = Not green or purple

★ <input type="checkbox"/> 1	Hairs upper side:	1 = Absent (Nugget)	2 = Sparse (Merion)	3 = Dense (Park)
<input type="checkbox"/> 1	Hairs lower side:	1 = Absent (Fylking, Merion)	2 = Sparse	3 = Dense (Nugget)
2	Luster upper side:	1 = Shiny (Eclipse, Enmundi)	2 = Dull (Aquila, Parade)	
1	Luster lower side:	1 = Shiny (Mystic, Enmundi)	2 = Dull (Barvie, Eclipse)	
★ <input type="checkbox"/> 1	Margin hairs (Fringe on Margin or Base):	1 = Absent (Delta)	2 = Present (Fylking, Merion)	
★ <input type="checkbox"/> 3	Width	1 = Very fine (Mystic)	2 = Fine (Nugget)	3 = Medium (Merion, Fylking)
		4 = Broad (Adelphi, Baron)	5 = Very broad (Monopoly)	

 3 ▲ 7 1 mm Width (flag leaf) 0 ▲ 6 8 mm Narrower than

Width same as

 0 ▲ 7 mm Wider than 5 9 ▲ 0 mm Length (flag leaf) 1 6 ▲ 0 mm Shorter than

Length same as

 1 2 ▲ 7 mm Longer than

Position of flag leaf (angle to stem):

★ <input type="checkbox"/> 11	1=Nugget	2=Fylking	3=Delta	10=Award	13=Liberator
★ <input type="checkbox"/> 12	4=Merion	5=Newport	6=Baron	11=Absolute	14=Glade
★ <input type="checkbox"/> 1	7=Mystic	8=Sabre	9=Reubens	12=Arcadia	15=Freedom II
★ <input type="checkbox"/> 13	1=Nugget	2=Fylking	3=Delta	10=Award	13=Liberator
★ <input type="checkbox"/> 10	4=Merion	5=Newport	6=Baron	11=Absolute	14=Glade
★ <input type="checkbox"/> 6	7=Mystic 1 = Appressed	8=Sabre 2 = Open angle, yet stiff	9=Reubens 3 = Nodding	12=Arcadia	15=Freedom II

7. LEAF SHEATH:

<input type="checkbox"/> 1	<input type="checkbox"/> 3	<input type="checkbox"/> 0	mm sheath length	
★			Seedling Color (base of sheath):	1 = Green (Nugget, Merion) 2 = Red (Delta)
★	<input type="checkbox"/> 1		Hairs on Margin:	1 = Absent (Fylking) 2 = Present (Nugget)
★	<input type="checkbox"/> 1		Margin Roughness (to touch):	1 = Smooth (Delta) 2 = Rough (Sabre)
	<input type="checkbox"/> 1		Hairs on Surface	1 = Absent 2 = Present (Nugget)
	<input type="checkbox"/> 1		Surface Roughness (to touch):	1 = Smooth (Fylking) 2 = Rough (Ram I)
	<input type="checkbox"/> 1		Hairs on both sides just beneath leaf blade (Under collar):	1 = Absent (Merion) 2 = Present (Nugget)
★	<input type="checkbox"/> 1		Hairs on Ligule:	1 = Absent (Fylking) 2 = Short (Baron) 3 = Long (Nugget)
	<input type="checkbox"/> 1		Glaucosity:	1 = Absent (Mystic, Enmundi) 2 = Present (Birka)
	<input type="checkbox"/> 2		Keel:	1 = Absent (Ram I) 2 = Present (Adelphi)

8 PANICLE (Mature plant):

#200300002

<input type="checkbox"/> 10	<input type="checkbox"/> 1	<input type="checkbox"/> 5	mm Length (Lowest whorl to top, for 10 plants) Test area:	Rathdrum, Idaho.					
<input type="checkbox"/> 2	<input type="checkbox"/> 0	<input type="checkbox"/> 8	mm Shorter than	<input type="checkbox"/> 14	1=Nugget	2=Fylking	3=Delta	10=Award	13=Liberator
			Panicle length same as	<input type="checkbox"/> 1	4=Merion	5=Newport	6=Baron	11=Absolute	14=Glade
<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 3	mm Longer than	<input type="checkbox"/> 10	7=Mystic	8=Sabre	9=Reubens	12=Arcadia	15=Freedom II

<input type="checkbox"/> 2	Color (at 50% flowering):	1 = Not red (Fylking)	2 = Red (Nugget)
<input type="checkbox"/> 1	Shape of Rachis (Opposite lower side of branches):	1 No bend (Nugget)	2 = Bend (Merion)
<input type="checkbox"/> 1	Collar:	1 = Opened (Nugget)	2 = Closed (Merion)
<input type="checkbox"/> 2	Branches Attitude (Lowest whorl):	1 = Dropping (America, Praia)	2 = Horizontal (Merion) 3 = Ascending (Tundra)

<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	Number of main branches in lowest whorl
<input type="checkbox"/> 1			Panicle Habit:
<input type="checkbox"/> 1			1 = Nodding (Newport) 2= Upright (Nugget)
<input type="checkbox"/> 1			Panicle Type:
<input type="checkbox"/> 1			1 = Open 2 = Intermediate 3= Compact
			Anther color (anthesis)
			1 = Purple 2 = Yellow 3 = Brown

9 Lemma:

<input type="checkbox"/> 1	Keel	1 = Galbrous	2 = Slightly pubescent	3 = pubescent
<input type="checkbox"/> 1	Marginal Nerves	1 = Distinct	2 = Obscure	
<input type="checkbox"/> 1	Intermediate Nerves	1 = Absent	2 = Scant (Baron)	
<input type="checkbox"/> 1	Basal Webbing			3 = Copious (Merion)

10. SEED (Floret-not hulled):

<input type="checkbox"/> 2	Apomixis Percentage	1 = more than 95	2 = 85 to 95	3 = less than 85						
	Phenol Reaction	1 = none-lemma removed (Merion)	2 = Beige (Cougar)	3 = Brown (Windsor)						
		4 = Black (Mystic 2 hours)	5 = Black (24 hours)							
<input type="checkbox"/> 0	<input type="checkbox"/> 7	<input type="checkbox"/> 2	mm. Width (average of 10)	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 3	mm. Length			
<input type="checkbox"/> 4	<input type="checkbox"/> 6	<input type="checkbox"/> 0	<input type="checkbox"/> 0	Milligrams per 10,000 seed						
<input type="checkbox"/> 4	<input type="checkbox"/> 0	<input type="checkbox"/> 0		Milligrams less than	<input type="checkbox"/> 1	1=Nugget	2=Fylking	3=Delta	10=Award	13=Liberator
				Weight same as	<input type="checkbox"/> 12	4=Merion	5=Newport	6=Baron	11=Absolute	14=Glade
<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	Milligrams more than	<input type="checkbox"/> 13	7=Mystic	8=Sabre	9=Reubens	12=Arcadia	15=Freedom II
<input type="checkbox"/> 3	Weight Class (g per 10,000 seed):				1 = Light (< 3g Sydsport, Merion)					
					2 = Medium (3g - 4 g Adelphi, Parade)					
					3 = Heavy (> 4g Fylking, Nugget)					

11. ENVIRONMENTAL RESISTANCE: (0=Not Tested; 1 = Very Susceptible; 2= Moderately susceptible; 3= Moderately resistant; 4 = Highly resistant):

<input type="checkbox"/> 2	Cool Temperature (Winter color)	<input type="checkbox"/> 3	Cold (injury)	<input type="checkbox"/> 3	Heat	<input type="checkbox"/> 3	Drought
<input type="checkbox"/> 2	Shade	<input type="checkbox"/> 3	Low Fertility	<input type="checkbox"/> 0	Acid Soil (<pH. 5.5)	<input type="checkbox"/> 0	Alkalinity (pH > 7.5)
<input type="checkbox"/> 0	Salinity	<input type="checkbox"/> 0	Soil Compaction	<input type="checkbox"/> 0	Poor Drainage	<input type="checkbox"/> 0	Air Pollution
							Other (specify) _____

12. DISEASE RESISTANCE: (0=Not Tested; 1 = Very Susceptible; 2= Moderately susceptible; 3= Moderately resistant; 4 = Highly resistant):

<input type="checkbox"/> 4	Melting-out <i>Drechslera poa</i> (<i>Helminthosporium vagans</i>)	<input type="checkbox"/> 0	Scerotina Patch <i>S. borealis</i>
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4	Helminthosporium Leaf spot <i>Bipolaris sorokiniana</i>
3	Brown patch <i>Rhizoctonia solani</i>
2	Powdery mildew <i>Erysiphe graminis</i>
4	Stripe smut <i>Ustilago striiformis</i>
0	Flag Smut <i>Urocystis agropyri</i>
2	Pink Snow Mold <i>Fusarium nivale</i>
3	Ergot <i>Claviceps purpurea</i>
4	Fusarium blight <i>F. tricinctum</i> , <i>F. roseum</i>
3	Typhula Blight <i>Typhula</i> spp.
3	Dollar spot <i>Sclerotinia homoeocarpa</i>

2	Stem rust <i>Puccinia graminis</i>
0	Stripe Rust <i>P. stiiiformis</i>
2	Leaf Rust <i>P. poa-nemoralis</i>
0	Orange Stripe Rust <i>P. poarum</i>
0	Pythium Blight <i>Pythium</i> spp..
0	Red thread <i>Corticium fusciforme</i>
	Other: _____
	Other: _____

2 0 0 3 0 0 0 2

13. INSECTS, NEMATODES, RESISTANCE: (0=Not Tested; 1 = Very Susceptible; 2= Moderately susceptible; 3= Moderately resistant; 4 = Highly resistant):

0	Chinch Bug <i>Blissus</i> spp. (give species: _____)
0	Sod Webworm <i>Crambus</i> spp. (give species: _____)
0	Bluegrass Billbug <i>Sphenophorus parvulus</i> (give species: _____) Manhattan, Kansas site.
0	White Grub (Japanese Beetle, Chafers. (give species: _____))
0	Greenbug Aphid <i>Schizaphis graminum</i>
	Other: _____
	Other: _____

14. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY, For the following characteristics indicate Degree of Resemblance by placing the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety. 2 = Same As 3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Maturity-heading	Limousine	3	Leaf width	Arcadia	2
Height	Award	2	Leaf color spring	Award	3
Seed size	Award	2	Leaf color summer	Award	2
Seed weight	Arcadia	3	Leaf color winter	Award	2
Cold injury	Award	2	Drought	Award	2
Heat	Award	3	Disease	Award	2
Shade	Award	3	(Leaf spot)		

★★Specify each disease evaluated.

15. ADDITIONAL DESCRIPTION:

Describe all character

Exhibit 16D

Additional Description of the Variety – ‘Nu Destiny’ Kentucky bluegrass

‘Nu Destiny’ is a robust, turf-type cultivar with favorable seed yield potential. Culm length averages 56 cm, with panicle length of 10 cm near Rathdrum, ID. Culm length is fairly uniform throughout the clonal plant with variation of 5 to 10 cm from culm to culm. There appears to be little or no tapering in culm length toward the edge of a clonal plant. Most culms have a vertical orientation, with some tapering at about a 20° angle from vertical at the edges of the clonal plant.

The panicles are primarily of the drooping type, with the top half of the panicle noticeably drooping. The coloration of the panicles at anthesis is a light olive green, with only a slight pinkish cast to the tips. Overall, a production field at anthesis appears to be slightly less purple than other elite cultivars. Leaf texture is very fine, with most of the leaves remaining low in the flowering canopy. Lateral plant extension from a single tiller in a given year averages 38 cm in diameter.

Most variants of Nu Destiny are shorter growing than the majority plant form. Nu Destiny exhibits more than an average number of miniature plants in its reproduction. These miniature plants will not be apparent in a seed production field due to the masking effect of bulk populations. About 25% of variants are slightly taller than the majority plant form. Most variants have lower seed yielding potential than the majority plant form. Aberrant plants are removed from seedstock fields. However, they will continue to be expressed in each generation, due to the facultative apomictic nature of Kentucky bluegrass. Nu Destiny does not show susceptibility to rust, mildew or ergot in seed production above that of other popular cultivars.

Nu Destiny is a versatile Kentucky bluegrass variety, with applications on golf courses, sod farms, sports fields, home lawns, roadsides, cemeteries, and other turf areas, where bluegrass is well adapted. Nu Destiny performs well in full sun or partial shade.

Table 1. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

Variety	Culm length (cm)			Sheath length (cm)			Panicle length (cm)		
	1999	prob.	2000	prob.	1999	prob.	2000	prob.	1999
Nu Destiny	56.7		56.1		13.0		10.8		10.15
Tsunami	50.9	0.000	55.3	0.257	10.9	0.000	9.3	0.000	8.90
Beyond	48.6	0.000	56.3	0.754	10.2	0.000	8.4	0.000	8.30
Absolute	61.9	0.000	58.6	0.000	11.6	0.000	11.2	0.084	8.30
Arcadia	48.6	0.000	51.9	0.000	10.7	0.000	8.6	0.000	9.12
Award	58.3	0.058	55.8	0.666	10.8	0.000	9.1	0.000	9.02
Baron	40.0	0.000	43.6	0.000	11.8	0.000	9.4	0.000	9.20
Blacksburg	53.6	0.001	50.9	0.000	10.5	0.000	8.8	0.000	8.42
Bluemoon	46.4	0.000	52.7	0.000	11.0	0.000	8.6	0.000	9.02
Chicago 2			46.4	0.000			6.9	0.000	8.57
Freedom 2	53.2	0.000	46.8	0.000	9.3	0.000	7.9	0.000	8.02
Glade	43.9	0.000	53.9	0.008	11.3	0.000	10.3	0.112	9.12
Impact	45.9	0.000	51.0	0.000	10.2	0.000	8.8	0.000	8.30
Liberator	46.0	0.000	52.6	0.000	10.9	0.000	9.0	0.000	8.83
Limousine	47.2	0.000	45.7	0.000	9.8	0.000	7.8	0.000	7.55
Midnight	54.3	0.007	60.8	0.000	10.4	0.000	8.4	0.000	8.17
Nugget	40.5	0.000	44.8	0.000	8.9	0.000	8.7	0.000	6.93
NuGlade	53.9	0.002	52.8	0.000	11.2	0.000	9.8	0.000	9.29
Odyssey	44.6	0.000	56.7	0.316	10.9	0.000	11.8	0.000	9.23
QuantumLeap	60.0	0.000	51.2	0.000	10.8	0.000	9.3	0.000	8.93
Rambo	46.8	0.000	52.9	0.000	10.0	0.000	8.4	0.000	8.21
Rugby II	45.8	0.000	54.8	0.058	9.8	0.000	9.2	0.000	8.22
Total Eclipse	48.0	0.000	53.9	0.001	9.5	0.000	8.8	0.000	7.59
Touchdown	60.8	0.000	66.1	0.000	16.5	0.000	14.3	0.000	12.23

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 2. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

Variety	Flagleaf length (cm)			Flagleaf width (mm)			Flagleaf length-to-width ratio (cm cm ⁻¹)		
	1999 prob.	2000 prob.		1999 prob.	2000 prob.		1999 prob.	2000 prob.	
Nu Destiny	5.90	4.04		3.71	2.58		16.2	16.2	
Tsunami	5.18	0.009	4.04	1.000	4.47	0.000	2.61	0.676	12.5
Beyond	4.76	0.000	4.25	0.247	3.09	0.000	2.14	0.000	15.6
Absolute	5.27	0.023	3.88	0.370	4.39	0.000	3.00	0.000	12.3
Arcadia	5.59	0.271	3.81	0.192	3.56	0.319	2.51	0.326	18.3
Award	5.38	0.060	4.05	0.974	3.43	0.064	2.15	0.000	16.2
Baron	4.63	0.000	3.28	0.001	3.71	0.992	3.38	0.000	14.2
Blacksburg	5.18	0.009	3.45	0.008	4.20	0.001	2.97	0.000	12.5
Bluemoon	5.32	0.035	3.95	0.588	3.39	0.040	1.58	0.000	16.1
Chicago 2			3.24	0.000			1.76	0.000	27.6
Freedom 2	4.28	0.000	3.05	0.000	3.19	0.001	2.58	0.964	14.4
Glade	4.56	0.000	4.08	0.880	3.38	0.034	2.42	0.087	13.8
Impact	4.93	0.000	4.18	0.451	3.37	0.025	1.54	0.000	14.8
Liberator	6.06	0.539	4.33	0.111	3.47	0.116	1.98	0.000	18.1
Limousine	4.36	0.000	3.42	0.005	3.33	0.012	2.56	0.796	14.4
Midnight	5.39	0.067	4.09	0.768	3.18	0.001	2.44	0.034	17.3
Nugget	3.49	0.000	3.46	0.008	3.03	0.000	2.70	0.167	12.2
NuGlade	5.14	0.006	4.01	0.857	3.84	0.416	2.46	0.114	13.7
Odyssey	5.09	0.003	4.49	0.014	4.07	0.019	2.54	0.620	12.7
QuantumLeap	5.11	0.004	4.18	0.465	3.50	0.162	2.30	0.000	14.9
Rambo	4.75	0.000	4.18	0.462	3.35	0.018	2.44	0.066	14.3
Rugby II	4.77	0.000	4.45	0.022	3.16	0.000	1.39	0.000	15.6
Total Eclipse	4.29	0.000	3.75	0.102	2.75	0.000	2.25	0.000	15.9
Touchdown	5.31	0.032	3.65	0.079	3.85	0.363	4.80	0.000	14.8

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 3. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

Variety	Second leaf length (cm)			Second leaf width (mm)			Length-to-width ratio (cm cm ⁻¹)					
	1999	prob.	2000	prob.	1999	prob.	2000	prob.	1999	prob.	2000	prob.
Nu Destiny	7.71		7.17		4.14		2.76		19.4		28.6	
Tsunami	7.31	0.241	8.00	0.002	4.50	0.024	2.69	0.752	17.1	0.063	31.8	0.119
Beyond	8.37	0.047	7.72	0.035	3.51	0.000	2.13	0.006	24.9	0.000	41.1	0.000
Absolute	8.57	0.010	7.57	0.124	5.08	0.000	2.70	0.783	17.1	0.064	31.3	0.188
Arcadia	8.35	0.056	7.53	0.164	4.90	0.000	2.69	0.769	17.4	0.103	32.2	0.080
Award	8.82	0.001	7.89	0.006	3.83	0.045	2.45	0.177	23.9	0.000	35.1	0.002
Baron	6.70	0.003	5.87	0.000	5.31	0.000	3.08	0.271	13.4	0.000	24.4	0.106
Blacksburg	7.29	0.210	6.49	0.031	4.17	0.873	3.20	0.115	18.0	0.264	21.5	0.005
Bluemoon	8.70	0.003	6.90	0.293	3.70	0.004	1.76	0.000	24.7	0.000	45.0	0.000
Chicago 2			4.93	0.000			2.09	0.003			26.6	0.343
Freedom 2	7.26	0.178	5.81	0.000	3.88	0.092	2.45	0.176	19.5	0.955	25.2	0.109
Glade	6.84	0.010	6.81	0.258	3.74	0.009	2.65	0.689	19.2	0.852	28.8	0.915
Impact	8.68	0.004	7.79	0.017	3.67	0.003	1.72	0.000	24.6	0.000	51.6	0.000
Liberator	8.49	0.020	7.98	0.002	3.75	0.013	1.97	0.001	23.5	0.001	44.2	0.000
Limousine	6.05	0.000	5.84	0.000	3.15	0.000	2.71	0.857	20.7	0.314	22.4	0.016
Midnight	7.42	0.395	7.74	0.018	3.74	0.010	2.65	0.583	20.3	0.494	30.8	0.247
Nugget	5.51	0.000	5.85	0.000	3.28	0.000	2.64	0.676	18.1	0.299	22.7	0.021
NuGlade	8.17	0.170	8.46	0.000	3.82	0.041	2.80	0.873	22.0	0.040	31.3	0.183
Odyssey	8.30	0.075	9.12	0.000	4.48	0.031	2.70	0.786	19.3	0.925	34.2	0.007
QuantumLeap	7.91	0.554	7.93	0.003	3.80	0.027	2.30	0.045	21.5	0.098	37.4	0.000
Rambo	7.88	0.609	7.78	0.018	3.76	0.013	3.44	0.003	21.8	0.062	32.2	0.082
Rugby II	8.03	0.330	8.45	0.000	3.29	0.000	1.51	0.000	25.6	0.000	59.3	0.000
Total Eclipse	7.10	0.071	7.49	0.212	2.78	0.000	2.33	0.060	27.2	0.000	36.8	0.000
Touchdown	7.38	0.327	7.53	0.262	4.54	0.011	5.80	0.000	17.9	0.235	14.7	0.000

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 4. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

Variety	Lowest internode in panicle (cm)			Panicle length minus lowest internode (cm)			Internode below panicle node (cm)					
	1999	prob.	2000	prob.	1999	prob.	2000	prob.	1999	prob.	2000	prob.
Nu Destiny	2.34		1.87		7.81		7.12		38.1		26.0	
Tsumami	2.04	0.000	1.51	0.000	6.86	0.000	5.93	0.000	29.0	0.000	24.1	0.000
Beyond	1.91	0.000	1.57	0.000	6.40	0.000	5.66	0.000	27.3	0.000	23.0	0.000
Absolute	2.00	0.000	1.32	0.000	6.30	0.000	5.37	0.000	28.8	0.000	21.9	0.000
Arcadia	2.17	0.001	1.51	0.000	6.94	0.000	5.62	0.000	31.2	0.000	22.7	0.000
Award	2.12	0.000	1.53	0.000	6.90	0.000	5.80	0.000	30.3	0.000	25.6	0.384
Baron	2.07	0.000	1.56	0.000	7.14	0.000	5.83	0.000	26.5	0.000	18.5	0.000
Blacksburg	1.97	0.000	1.33	0.000	6.46	0.000	5.34	0.000	34.8	0.000	25.6	0.469
Bluemoon	2.07	0.000	1.53	0.000	6.96	0.000	5.75	0.000	28.1	0.000	23.4	0.000
Chicago 2			1.29	0.000			4.60	0.000			24.4	0.001
Freedom 2	1.88	0.000	1.28	0.000	6.13	0.000	5.11	0.000	29.7	0.000	22.3	0.000
Glade	1.98	0.000	1.94	0.125	7.14	0.000	6.96	0.220	30.5	0.000	25.7	0.573
Impact	1.84	0.000	1.59	0.000	6.47	0.000	5.81	0.000	28.1	0.000	23.8	0.000
Liberator	1.94	0.000	1.51	0.000	6.88	0.000	5.61	0.000	28.6	0.000	22.5	0.000
Limousine	1.81	0.000	1.42	0.000	5.74	0.000	4.62	0.000	30.8	0.000	22.6	0.000
Midnight	1.95	0.000	1.55	0.000	6.22	0.000	5.18	0.000	28.9	0.000	25.5	0.301
Nugget	1.66	0.000	1.54	0.000	5.27	0.000	5.43	0.000	27.9	0.000	21.9	0.000
NuGlade	2.11	0.000	1.46	0.000	7.19	0.000	6.11	0.000	30.7	0.000	22.2	0.000
Odyssey	2.08	0.000	1.68	0.000	7.15	0.000	6.65	0.000	28.1	0.000	23.1	0.000
QuantumLeap	2.05	0.000	1.44	0.000	6.88	0.000	5.75	0.000	30.6	0.000	22.7	0.000
Rambo	1.82	0.000	1.43	0.000	6.39	0.000	5.51	0.000	27.7	0.000	22.0	0.000
Rugby II	1.87	0.000	1.60	0.000	6.35	0.000	5.91	0.000	27.1	0.000	22.4	0.000
Total Eclipse	1.77	0.000	1.52	0.000	5.82	0.000	5.59	0.000	26.7	0.000	23.2	0.000
Touchdown	3.26	0.000	2.36	0.000	8.98	0.000	8.19	0.000	37.3	0.274	29.2	0.000

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 5. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

Variety	Branches at lowest panicle whorl			Panicle node to flagleaf collar (cm)			Culm length up to flagleaf node (cm)		
				1999	prob.	2000	prob.	1999	prob.
	1999	prob.	2000	prob.	1999	prob.	2000	prob.	1999
Nu Destiny	4.56		3.19		25.1		15.2		9.0
Tsunami	4.22	0.016	3.50	0.004	18.2	0.000	14.8	0.406	13.2
Beyond	3.78	0.000	3.18	0.943	17.2	0.000	14.6	0.215	13.1
Absolute	3.90	0.000	3.01	0.085	17.2	0.000	10.7	0.000	24.8
Arcadia	4.35	0.141	3.28	0.382	20.5	0.000	14.2	0.035	9.6
Award	4.25	0.030	3.43	0.022	19.5	0.000	16.5	0.006	19.1
Baron	4.68	0.383	3.70	0.000	14.8	0.000	9.1	0.000	6.4
Blacksburg	4.17	0.006	3.48	0.024	24.2	0.167	16.8	0.006	10.5
Bluemoon	4.03	0.000	3.27	0.474	17.1	0.000	14.8	0.414	9.7
Chicago 2			3.78	0.000			17.6	0.000	15.5
Freedom 2	4.90	0.017	4.13	0.000	20.4	0.000	14.3	0.078	22.1
Glade	4.08	0.001	3.03	0.224	19.2	0.000	15.3	0.792	5.9
Impact	4.00	0.000	3.30	0.295	17.9	0.000	15.0	0.649	10.1
Liberator	3.97	0.000	3.23	0.688	17.7	0.000	13.6	0.001	9.5
Limousine	4.97	0.004	3.93	0.000	21.0	0.000	14.8	0.537	9.4
Midnight	3.98	0.000	2.97	0.020	18.5	0.000	17.1	0.000	17.2
Nugget	3.85	0.000	2.87	0.012	19.0	0.000	13.2	0.001	7.9
NuGlade	4.23	0.022	3.48	0.006	19.5	0.000	12.5	0.000	13.9
Odyssey	4.47	0.515	3.83	0.000	17.3	0.000	11.6	0.000	8.7
QuantumLeap	4.43	0.376	3.38	0.069	19.7	0.000	13.4	0.000	20.5
Rambo	4.13	0.003	3.39	0.055	17.7	0.000	13.5	0.001	11.2
Rugby II	4.02	0.000	3.47	0.007	17.4	0.000	13.2	0.000	10.8
Total Eclipse	3.73	0.000	3.33	0.205	17.2	0.000	14.4	0.123	13.8
Touchdown	3.55	0.000	3.30	0.400	20.8	0.000	14.9	0.645	11.6

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 6. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

Variety	Panicle fresh weight (g/10 panicles)				Seed length (mm)				Seed width (mm)			
	1999 prob.	2000 prob.	1999 prob.	2000 prob.	1999 prob.	2000 prob.	1999 prob.	2000 prob.	1999 prob.	2000 prob.	1999 prob.	2000 prob.
Nu Destiny	1.65	2.11	3.13	2.97	0.72	0.69						
Tsunami	2.03	0.016	1.80	0.068	3.09	0.236	2.78	0.000	0.71	0.138	0.63	0.000
Beyond	1.87	0.124	1.50	0.000	3.14	0.829	2.83	0.000	0.71	0.174	0.63	0.000
Absolute	1.30	0.079	1.85	0.136			3.02	0.120			0.68	0.290
Arcadia	2.23	0.003	2.23	0.471	3.14	0.770	2.86	0.002	0.70	0.091	0.66	0.003
Award	1.86	0.190	1.82	0.088	3.10	0.423	2.90	0.051	0.69	0.001	0.65	0.000
Baron	1.76	0.576	2.27	0.440			2.98	0.790			0.76	0.000
Blacksburg	2.04	0.015	1.42	0.001			2.49	0.000			0.66	0.016
Bluemoon	0.97	0.000	1.53	0.001	3.12	0.794	2.88	0.008	0.69	0.004	0.63	0.000
Chicago 2			1.98	0.435			3.05	0.016			0.69	0.927
Freedom 2	1.80	0.347	1.49	0.000			2.96	0.871			0.66	0.013
Glade	1.64	0.958	1.80	0.135	3.16	0.555	3.04	0.063	0.74	0.096	0.69	0.880
Impact	1.45	0.211	1.41	0.000	3.01	0.001	2.79	0.000	0.72	0.757	0.64	0.000
Liberator	1.36	0.076	1.55	0.001	3.06	0.051	2.83	0.000	0.69	0.002	0.65	0.000
Limousine	2.33	0.001	1.01	0.000			2.67	0.000			0.59	0.000
Midnight	2.61	0.000	1.59	0.002	3.05	0.011	2.87	0.002	0.70	0.014	0.65	0.000
Nugget	0.99	0.000	1.18	0.000	3.22	0.046	3.29	0.000	0.73	0.579	0.71	0.071
NuGlade	1.60	0.749	2.01	0.562	3.16	0.356	2.84	0.000	0.71	0.132	0.64	0.000
Odyssey	1.40	0.208	1.88	0.188	3.15	0.517	2.88	0.016	0.68	0.000	0.64	0.000
QuantumLeap	2.40	0.000	1.99	0.499	3.14	0.902	2.88	0.008	0.69	0.001	0.66	0.019
Rambo	1.11	0.001	1.43	0.000	3.13	0.951	2.81	0.000	0.70	0.041	0.63	0.000
Rugby II	0.92	0.000	1.86	0.147	3.03	0.006	2.94	0.441	0.69	0.005	0.67	0.154
Total Eclipse	2.10	0.005	1.31	0.000	3.09	0.261	2.77	0.000	0.70	0.011	0.63	0.000
Touchdown	1.72	0.690	1.94	0.421			2.92	0.236			0.72	0.011

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 7. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

Variety	Seed length-to-width ratio (cm cm-1)			Seed weight per 100 seeds (g)		
	1999	prob.	2000	prob.	1999	prob.
Nu Destiny	4.37		4.33		0.046	0.042
Tsunami	4.40	0.658	4.49	0.030	0.045	0.715
Beyond	4.46	0.161	4.52	0.010	0.043	0.107
Absolute			4.50	0.019		0.033
Arcadia	4.49	0.050	4.42	0.247	0.045	0.594
Award	4.53	0.008	4.50	0.018	0.038	0.000
Baron			3.99	0.000		0.047
Blacksburg			3.83	0.000		0.034
Bluemoon	4.53	0.012	4.59	0.000	0.039	0.000
Chicago 2			4.47	0.058		0.033
Freedom 2			4.55	0.002		0.046
Glade	4.31	0.400	4.47	0.120	0.042	0.041
Impact	4.23	0.018	4.40	0.379	0.036	0.000
Liberator	4.46	0.173	4.39	0.462	0.036	0.000
Limousine			4.60	0.002		0.028
Midnight	4.39	0.828	4.43	0.120	0.040	0.000
Nugget	4.45	0.309	4.67	0.000	0.050	0.031
NuGlade	4.50	0.031	4.49	0.026	0.038	0.000
Odyssey	4.67	0.000	4.57	0.001	0.035	0.000
QuantumLeap	4.58	0.001	4.37	0.661	0.036	0.000
Rambo	4.49	0.060	4.53	0.006	0.040	0.000
Rugby II	4.38	0.966	4.39	0.444	0.040	0.000
Total Eclipse	4.45	0.223	4.45	0.096	0.042	0.011
Touchdown			4.07	0.002		0.046

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 8. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars, near Rathdrum, ID, in 1999, 2000, and 2002.
Missing values indicate varieties not tested in a given year.

Variety	Panicle color rating (9=purple, 1=green)				Reproductive maturity rating, 30 May (1-9 scale, 9=early)			
	1999 prob.	2000 prob.	2002 prob.		1999 prob.	2000 prob.	2002 prob.	
Nu Destiny	5.0	5.5	6.3		5.2	7.0	4.2	
Tsumami	5.7	0.377	8.0	0.000	6.1	0.552	2.6	0.000
Beyond	3.7	0.080	7.3	0.000	5.7	0.075	1.9	0.000
Absolute	4.0	0.187	3.2	0.000			5.2	1.000
Arcadia	5.7	0.377	7.3	0.000			3.4	0.000
Award	5.3	0.658	8.0	0.000	7.0	0.075	2.1	0.000
Baron	5.7	0.377	5.3	0.710	7.9	0.000	7.2	0.000
Blacksburg	4.7	0.658	4.2	0.004	4.9	0.000	5.2	1.000
Bluemoon	5.7	0.377	6.3	0.065	6.9	0.137	1.8	0.000
Chicago 2			3.8	0.000	2.1	0.000		
Freedom 2	4.0	0.187	3.5	0.000	4.6	0.000	4.6	0.081
Glade	6.0	0.187	4.8	0.139	5.7	0.075	5.2	1.000
Impact	6.0	0.187	7.8	0.000			2.4	0.000
Liberator	6.0	0.187	7.5	0.000	5.9	0.234	2.2	0.000
Limousine	4.0	0.187	3.7	0.000			6.4	0.001
Midnight	5.7	0.377	7.3	0.000	6.0	0.372	2.6	0.000
Nugget	7.3	0.003	6.7	0.010	7.8	0.000	7.1	0.000
NuGlade	5.3	0.658	7.5	0.000	7.0	0.075	2.7	0.000
Odyssey	6.3	0.080	7.5	0.000			2.4	0.000
QuantumLeap	6.0	0.187	7.0	0.001			2.8	0.000
Rambo	5.7	0.377	7.5	0.000			2.0	0.000
Rugby II	6.0	0.187	8.3	0.000			2.0	0.000
Total Eclipse	5.3	0.658	6.8	0.004			2.1	0.000
Touchdown	6.7	0.030	7.0	0.001	8.4	0.000	9.0	0.000

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

#200300002

Table 9. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars, near Rathdrum, ID, in 1999, 2000, and 2002. Missing values indicate varieties not tested in a given year.

Variety	Reproductive maturity rating, 7 June (1=early)					
	1999 prob.	2000 prob.	2000 prob.	2002 prob.	2002 prob.	2002 prob.
Nu Destiny	7.3	7.7	7.7	5.9	5.3	0.198
Tsunami	6.6	0.128	6.6	0.000	6.4	0.198
Beyond	5.8	0.002	6.4	0.000		
Absolute	7.9	0.276	8.4	0.013		
Arcadia	6.4	0.082	5.7	0.000	4.6	0.002
Award	4.8	0.000	4.8	0.000		
Baron	8.4	0.030	8.4	0.013	8.3	0.000
Blacksburg	7.7	0.513	6.9	0.013	8.2	0.000
Bluemoon	5.7	0.001	5.6	0.000	4.4	0.001
Chicago 2			7.3	0.240	8.0	0.000
Freedom 2	7.6	0.663	8.0	0.268	8.0	0.000
Glade	7.1	0.663	7.8	0.782	8.0	0.000
Impact	5.4	0.000	6.4	0.000		
Liberator	5.8	0.002	4.8	0.000	6.2	0.440
Limousine	8.0	0.192	8.2	0.097		
Midnight	5.0	0.000	5.8	0.000	6.0	0.797
Nugget	8.4	0.030	7.5	0.580	8.0	0.000
NuGlade	5.6	0.001	5.6	0.000	6.1	0.606
Odyssey	4.8	0.000	5.5	0.000		
QuantumLeap	5.4	0.000	6.0	0.000		
Rambo	6.0	0.009	4.6	0.000		
Rugby II	5.0	0.000	5.8	0.000		
Total Eclipse	5.4	0.000	5.8	0.000		
Touchdown	9.0	0.001	9.0	0.000	9.0	0.000

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) J.R. Simplot Company	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 94-2695, J-2695	3. VARIETY NAME Nu Destiny
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) W. 5300 Riverbend Avenue Post Falls, ID 83854	5. TELEPHONE (Include area code) (208) 773-7581	6. FAX (Include area code) (208) 773-4846
7. PVPO NUMBER #200300002		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

YES

NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

YES

NO

10. Is the applicant the original owner?

YES

NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

YES

NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

YES

NO

If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT F
DECLARATION REGARDING DEPOSIT**

NAME OF OWNER (S) J.R. Simplot Company	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) W. 5300 Riverbend Avenue Post Falls, ID 83854	TEMPORARY OR EXPERIMENTAL DESIGNATION 94-2695, J-2695
NAME OF OWNER REPRESENTATIVE (S) Dr. A. Douglas Brede	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) W. 5300 Riverbend Avenue Post Falls, ID 83854	VARIETY NAME Nu Destiny FOR OFFICIAL USE ONLY PVPO NUMBER #200300002

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

A. Douglas Brede
Signature

11/18/08
Date

20.

Page 1 of 1